



# **STIC Search Report**

## **EIC 2100**

**STIC Database Tracking Number: 119579**

**TO: James Seal**  
**Location: 4D11**  
**Art Unit : 2135**  
**Friday, April 16, 2004**

**Case Serial Number: 09/274496**

**From: David Holloway**  
**Location: EIC 2100**  
**PK2-4B30**  
**Phone: 308-7794**

**david.holloway@uspto.gov**

### **Search Notes**

Dear Examiner Seal,

Attached please find your search results for above-referenced case.  
Please contact me if you have any questions or would like a re-focused search.

David



David

# STIC EIC 2100 Search Request Form

119579  
62

Today's Date:

4/16/04

What date would you like to use to limit the search?

Priority Date: 19960606

Other:

Name

James Seal

AU

2135

Examiner #

76900

Room #

4DU

Phone

308-4562

Serial #

9/274 496

Format for Search Results (Circle One):

PAPER

DISK

EMAIL

Where have you searched so far?

USP

DWPI

EPO

JPO

ACM

IBM TDB

IEEE

INSPEC

SPI

Other

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

The applicant has a copy protection system which marks digital data (e.g. an image) and generates an authenticator Y. Now applicant transfers marked data and Y to a device configured to prevent copying or transmitting the marked data when the result of performing the one-way cryptographic function on Y is not not detected in the marked data

STIC Searcher

David Holloway

Phone

308-7791

Date picked up

4-16-04

Date Completed

4-16-04



DIARob

1996-June 6th

Set	Items	Description
S1	22877094	MARK? OR HIGHLIGHT? OR HILIGHT? OR SELECT? OR SEGREGAT?
S2	3385594	S1(3N) (DATA OR INFORMATION? OR TEXT? OR MEDIA? OR MULTIMEDIA? OR SOUND? OR IMAGE?)
S3	10035115	AUTHENTICAT? OR APPROV? OR ACCESS? OR RIGHTS
S4	65415	ONE()WAY()FUNCTION? OR ONE()WAY(2N)CRYPTOGRAPH? OR HASH?
S5	3	S2(10N)S3(10N)S4
S6	3	RD (unique items)
S7	36	S2(S)S3(S)S4
S8	25	S2(3N)S4
S9	84	S3(2N)S4(10N)S1
S10	145	S6 OR S7 OR S8 OR S9
S11	99	RD (unique items)
S12	45	S11 NOT PY>1996
S13	37	S12 NOT PD=19960606:19980606
S14	37	S13 NOT PD=19980606:20010606
S15	37	S14 NOT PD=20010606:20040501
File 275:Gale Group Computer DB(TM) 1983-2004/Apr 16		
(c) 2004 The Gale Group		
File 47:Gale Group Magazine DB(TM) 1959-2004/Apr 16		
(c) 2004 The Gale group		
File 636:Gale Group Newsletter DB(TM) 1987-2004/Apr 16		
(c) 2004 The Gale Group		
File 16:Gale Group PROMT(R) 1990-2004/Apr 15		
(c) 2004 The Gale Group		
File 624:McGraw-Hill Publications 1985-2004/Apr 14		
(c) 2004 McGraw-Hill Co. Inc		
File 484:Periodical Abs Plustext 1986-2004/Apr W2		
(c) 2004 ProQuest		
File 813:PR Newswire 1987-1999/Apr 30		
(c) 1999 PR Newswire Association Inc		
File 141:Readers Guide 1983-2004/Apr		
(c) 2004 The HW Wilson Co		
File 239:Mathsci 1940-2004/May		
(c) 2004 American Mathematical Society		
File 696:DIALOG Telecom. Newsletters 1995-2004/Apr 15		
(c) 2004 The Dialog Corp.		
File 553:Wilson Bus. Abs. FullText 1982-2004/Apr		
(c) 2004 The HW Wilson Co		
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Apr 16		
(c) 2004 The Gale Group		
File 674:Computer News Fulltext 1989-2004/Apr W2		
(c) 2004 IDG Communications		
File 369:New Scientist 1994-2004/Apr W2		
(c) 2004 Reed Business Information Ltd.		
File 160:Gale Group PROMT(R) 1972-1989		
(c) 1999 The Gale Group		
File 15:ABI/Inform(R) 1971-2004/Apr 16		
(c) 2004 ProQuest Info&Learning		
File 9:Business & Industry(R) Jul/1994-2004/Apr 15		
(c) 2004 The Gale Group		
File 647:CMP Computer Fulltext 1988-2004/Apr W1		
(c) 2004 CMP Media, LLC		
File 98:General Sci Abs/Full-Text 1984-2004/Apr		
(c) 2004 The HW Wilson Co.		
File 148:Gale Group Trade & Industry DB 1976-2004/Apr 16		
(c)2004 The Gale Group		

Set	Items	Description
S1	961480	MARK? OR HIGHLIGHT? OR HILIGHT? OR SELECT? OR SEGREGAT?
S2	112681	S1(3N) (DATA OR INFORMATION? OR TEXT? OR MEDIA? OR MULTIMEDIA? OR SOUND? OR IMAGE?)
S3	604715	AUTHENTICAT? OR APPROV? OR ACCESS? OR RIGHTS
S4	18868	ONE()WAY()FUNCTION? OR ONE()WAY(2N)CRYPTOGRAPH? OR HASH?
S5	36	S2(10N)S3(10N)S4
S6	52	S2(15N)S3(15N)S4
S7	44	S6 NOT AD=19960606:19980606
S8	35	S7 NOT AD=19980606:20000606
S9	20	S8 NOT AD=20000606:20020606
S10	20	S9 NOT AD=20020606:20040601
S11	20	IDPAT (sorted in duplicate/non-duplicate order)
S12	20	IDPAT (primary/non-duplicate records only)

File 348:EUROPEAN PATENTS 1978-2004/Apr W01  
(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040408,UT=20040401  
(c) 2004 WIPO/Univentio

12/5,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00764620

**Method and system for the secured distribution of programs**  
**Verfahren und System zur gesicherten Programmenverteilung**  
**Methode et systeme de distribution securise de logiciels**

PATENT ASSIGNEE:

INTERNATIONAL BUSINESS MACHINES CORPORATION, (200123), , Armonk, NY  
10504, (US), (Proprietor designated states: all)

INVENTOR:

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LEGAL REPRESENTATIVE:

Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual  
Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 717337 A1 960619 (Basic)  
EP 717337 B1 010801

APPLICATION (CC, No, Date): EP 95308527 951128;

PRIORITY (CC, No, Date): US 354700 941213

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-001/00; G06F-012/14

CITED PATENTS (EP B): EP 565314 A; EP 570123 A; US 4908861 A

ABSTRACT EP 717337 A1

A method and system for detecting authorized programs within a data processing system. The present invention creates a validation structure for validating a program. The validation structure is embedded in the program and in response to an initiation of the program, a determination is made as to whether the program is an authorized program. The determination is made using the validation structure. (see image in original document)

ABSTRACT WORD COUNT: 80

NOTE:

Figure number on first page: 3

LEGAL STATUS (Type, Pub Date, Kind, Text):

Grant: 010801 B1 Granted patent  
Application: 960619 A1 Published application (A1with Search Report  
;A2without Search Report)  
Oppn None: 020724 B1 No opposition filed: 20020503  
Examination: 961227 A1 Date of filing of request for examination:  
961029  
Examination: 990915 A1 Date of dispatch of the first examination  
report: 19990421

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	761
CLAIMS B	(English)	200131	700
CLAIMS B	(German)	200131	642
CLAIMS B	(French)	200131	892
SPEC A	(English)	EPAB96	7353
SPEC B	(English)	200131	7399
Total word count - document A			8115
Total word count - document B			9633
Total word count - documents A + B			17748

...SPECIFICATION and validating the selected data objects using validation information stored the validation structure. For each **selected data** object, the location information stored in the validation structure is **accessed** and used to read the **selected data** object from the

multimedia program. A cryptographic **hash** value is calculated on the **selected data** object and then compared for equality with a corresponding **hash** -value-of-reference stored in the validation structure. The **hash** values must be equal for the **selected data** objects to be valid. In addition, the validation structure is itself validated through the use...a location of the section, the storage device comprising: creation means for creating a cryptographic **hash** value on the section in location indicated by the location value for the randomly **selected data** record for each randomly **data selected** record; and comparison means for comparing the created cryptographic **hash** value with the **hash** value within the randomly **selected data** record, wherein the means are activated when the storage device is connected to and **accessed** by a data processing system. ...

...SPECIFICATION and validating the selected data objects using validation information stored the validation structure. For each **selected data** object, the location information stored in the validation structure is **accessed** and used to read the **selected data** object from the multimedia program. A cryptographic **hash** value is calculated on the **selected data** object and then compared for equality with a corresponding **hash** -value-of-reference stored in the validation structure. The **hash** values must be equal for the **selected data** objects to be valid. In addition, the validation structure is itself validated through the use...a location of the section, the storage device comprising: creation means for creating a cryptographic **hash** value on the section in location indicated by the location value for the randomly **selected data** record for each randomly **data selected** record; and comparison means for comparing the created cryptographic **hash** value with the **hash** value within the randomly **selected data** record, wherein the means are activated when the storage device is connected to and **accessed** by a data processing system.

Set	Items	Description
S1	1755590	MARK? OR HIGHLIGHT? OR HILIGHT? OR SELECT? OR SEGREGAT?
S2	4087762	DATA OR INFORMATION? OR TEXT? OR MEDIA? OR MULTIMEDIA? OR - SOUND? OR IMAGE?
S3	393162	AUTHENTICAT? OR APPROV? OR ACCESS? OR RIGHTS
S4	3707	ONE()WAY()FUNCTION? OR ONE()WAY(2N)CRYPTOGRAPH? OR HASH?
S5	705	S2 AND S3 AND S4
S6	3606	S4(2N)(AUTHENTICATOR? OR HASH?)
S7	127	S1 AND S5
S8	103	S7 AND IC=(G06F? OR H04L?)
S9	183	S3(4N)S4
S10	25	S8 AND S9
S11	25	IDPAT (sorted in duplicate/non-duplicate order)
S12	25	IDPAT (primary/non-duplicate records only)
S13	1	S12 AND (PROTECT? OR SAFE? OR PRESERV? OR COMPRESS?)
S14	18	S7 AND IC=H04L-009?
S15	17	S14 NOT S12
S16	7	S15 NOT AD=19960606:19990606
S17	3	S16 NOT AD=19990606:20020606
S18	2	S17 NOT AD=20020606:20040417

File 347:JAPIO Nov 1976-2003/Dec(Updated 040402)  
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200424  
(c) 2004 Thomson Derwent

18/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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010026923 \*\*Image available\*\*  
WPI Acc No: 1994-294636/199436  
Related WPI Acc No: 1992-268845  
XRPX Acc No: N94-231754

**Archived record keeping system, e.g. diary, for computer - archives diary entry by creating time stamp, authenticating and permanently storing reference data block with working data block in each diary entry in computer system**

Patent Assignee: BLANDFORD R R (BLAN-I)  
Inventor: BLANDFORD R R  
Number of Countries: 022 Number of Patents: 006  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9419884	A1	19940901	WO 94US2145	A	19940222	199436 B
US 5347579	A	19940913	US 89375502	A	19890705	199436
			US 91637675	A	19910107	
			US 9320354	A	19930222	
AU 9463548	A	19940914	AU 9463548	A	19940222	199502
EP 746922	A1	19961211	EP 94910780	A	19940222	199703
			WO 94US2145	A	19940222	
US 6442691	B1	20020827	US 89375502	A	19890705	200259
			US 91637675	A	19910107	
			US 9320354	A	19930222	
			US 94198041	A	19940217	
			US 95394954	A	19950227	
US 6470449	B1	20021022	US 89375502	A	19890705	200273
			US 91637675	A	19910107	
			US 9320354	A	19930222	
			US 94198041	A	19940217	

Priority Applications (No Type Date): US 9320354 A 19930222; US 89375502 A 19890705; US 91637675 A 19910107; US 94198041 A 19940217; US 95394954 A 19950227

Cited Patents: 03Jnl.Ref; US 32655; US 4244049; US 5027395; US 5150407

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 9419884	A1 E	51	H04K-001/00	
				Designated States (National): AU CA CN JP RU
				Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
US 5347579	A	31	H04K-001/00	CIP of application US 89375502 CIP of application US 91637675 CIP of patent US 5189700
AU 9463548	A		H04K-001/00	Based on patent WO 9419884
EP 746922	A1 E	51	H04K-001/00	Based on patent WO 9419884
				Designated States (Regional): DE ES FR GB IT
US 6442691	B1		H04K-001/00	CIP of application US 89375502 CIP of application US 91637675 Div ex application US 9320354 Div ex application US 94198041 CIP of patent US 5189700 Div ex patent US 5347579
US 6470449	B1		H04K-001/00	CIP of application US 89375502 CIP of application US 91637675 Div ex application US 9320354 CIP of patent US 5189700 Div ex patent US 5347579

Abstract (Basic): WO 9419884 A

The computer system has a **data** processor (102) for forming and editing original **data** blocks. A representation of each formed and edited original **data** block combined with an original date is generated and stored as a reference **data** block (226). The reference block is prevented (378) from modification. A second



version of the **data** block and date is stored as a working **data** block (228). The working **data** block is modified (368) by **marking** the block which identifies the modifications and removes or recreates the corresp. original block. The **marked** modifications are removed from the block to recreate the original, and to generate a representation of the recreated block which is identical to the stored reference block in the absence of corruption of the **data** blocks.

USE/ADVANTAGE - Secure system. Controlled **access** to diary which even owner of system cannot alter, change date of, or erase **data** which is time-stamped, **authenticated**, and already stored.

Dwg.1/25

Title Terms: RECORD; KEEP; SYSTEM; DIARY; COMPUTER; ARCHIVE; DIARY; ENTER; TIME; STAMP; AUTHENTICITY; PERMANENT; STORAGE; REFERENCE; **DATA**; BLOCK; WORK; **DATA**; BLOCK; DIARY; ENTER; COMPUTER; SYSTEM

Derwent Class: S04; T01; W01

International Patent Class (Main): H04K-001/00

International Patent Class (Additional): G06F-001/00; G07D-007/00;

**H04L-009/00 ; H04L-009/02**

File Segment: EPI

Set	Items	Description
S1	1755590	MARK? OR HIGHLIGHT? OR HILIGHT? OR SELECT? OR SEGREGAT?
S2	4087762	DATA OR INFORMATION? OR TEXT? OR MEDIA? OR MULTIMEDIA? OR - SOUND? OR IMAGE?
S3	393162	AUTHENTICAT? OR APPROV? OR ACCESS? OR RIGHTS
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S5	705	S2 AND S3 AND S4
S6	3606	S4(2N)(AUTHENTICATOR? OR HASH?)
S7	127	S1 AND S5
S8	103	S7 AND IC=(G06F? OR H04L?)
S9	183	S3(4N)S4
S10	25	S8 AND S9
S11	25	IDPAT (sorted in duplicate/non-duplicate order)
S12	25	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2003/Dec(Updated 040402)  
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200424  
(c) 2004 Thomson Derwent

12/5/8 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013054004 \*\*Image available\*\*  
WPI Acc No: 2000-225869/200020  
XRPX Acc No: N00-169358

**Generating authentication -enabled electronic data authenticated  
using image data with visual expressing of genuineness of the  
electronic data**

Patent Assignee: HITACHI LTD (HITA )  
Inventor: KIKUTA A; NAGAI Y; SAITO T; SUSAKI S; TOYOSHIMA H; TSUCHIYAMA C;  
YOSHIURA H

Number of Countries: 026 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 982927	A1	20000301	EP 99116630	A	19990825	200020 B
JP 2000078125	A	20000314	JP 98243345	A	19980828	200024

Priority Applications (No Type Date): JP 98243345 A 19980828

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 982927 A1 E 30 H04N-001/32

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI

JP 2000078125 A 20 H04L-009/32

Abstract (Basic): EP 982927 A1

NOVELTY - The **mark** -pasted content (210) and the public key (214) of a **mark authentication** source are stored in a storage device and, when receiving a check request through an input/output unit, a controller activates the **mark** cutout unit, which cuts out the **information** -appended electronic **mark** (212), the **mark** part (111) of which has been embedded as a visible digital watermark and extracts the extraction **information** . A digital signature check unit checks the genuineness and reasonability of the **mark** -pasted content according to coincidence between the **hash** value of **authentication information** and the calculated value.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for methods of checking, displaying and **authenticating** electronic **data** , for an **authentication** -enabled electronic **data** generating device, for a storage medium and for an **authentication** system.

USE - Enabling **authentication** of generation of electronic **data** using **image data** .

ADVANTAGE - Visual expressing of generation of electronic **data** for users.

DESCRIPTION OF DRAWING(S) - The drawing is a diagram showing processing of a **mark** -pasted content creating device according to a first embodiment of the present invention

**Mark** -pasted content (210)

Public key (214)

**Information** -appended electronic **mark** (212)

**Mark** part (111)

pp; 30 DwgNo 5/16

Title Terms: GENERATE; AUTHENTICITY; ENABLE; ELECTRONIC; **DATA** ;  
AUTHENTICITY; **IMAGE** ; **DATA** ; VISUAL; EXPRESS; GENUINE; ELECTRONIC;  
**DATA**

Derwent Class: W01; W02

International Patent Class (Main): **H04L-009/32** ; H04N-001/32

International Patent Class (Additional): G09C-001/00; G09C-005/00;

H04N-001/387; H04N-007/08; H04N-007/081

File Segment: EPI

12/5/20 (Item 20 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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009364913 \*\*Image available\*\*  
WPI Acc No: 1993-058392/199307  
Related WPI Acc No: 1994-341340  
XRPX Acc No: N93-044560

Data retrieval appts. with hash memory address generated by input packet ID - has address generator selecting identification data by string, and generates hashed address by reversible operation to access hash memory and compares stored and input packet IDs using match detector

Patent Assignee: MITSUBISHI DENKI KK (MITQ )  
Inventor: FUJITA M; KOMORI S; SATO H; TAKATA H; TAMURA T  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5182799	A	19930126	US 89416887	A	19891004	199307 B

Priority Applications (No Type Date): JP 89102712 A 19890421

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5182799	A	20	G06F-012/02	

Abstract (Basic): US 5182799 A

The data retrieving appts. which processes an input packet included in a set of received input packets, each having identification data of an arbitrary bit length. The identification data includes at least two bit strings which have differing values in each received input packet. The appts. has an address generator which selects the two bit strings from the identification data, and generates a storing address by a reversible operation on the selected bit strings. A hash memory holds parts or all of a number of data packets, and has addresses corresp., to the storing addresses. A first storage device holds a part or all of the input packet in the hash memory at the storing address. A comparator evaluates part or all of the identification data of a previously stored packet at the storing address with a part or all of the identification data of the input packet, and determines the equivalence of the compared data, when a valid packet is already stored in the storing address reserved for the input packet.

ADVANTAGE - All hash memory addresses are accessible even when identification data resemble each other. Suppresses hashed address conflict and improves processing efficiency.

Dwg.4/11

Title Terms: DATA ; RETRIEVAL; APPARATUS; HASH ; MEMORY; ADDRESS; GENERATE; INPUT; PACKET; ID; ADDRESS; GENERATOR; SELECT ; IDENTIFY; DATA ; STRING; GENERATE; HASH ; ADDRESS; REVERSE; OPERATE; ACCESS ; HASH ; MEMORY; COMPARE; STORAGE; INPUT; PACKET; MATCH; DETECT

Derwent Class: T01

International Patent Class (Main): G06F-012/02

File Segment: EPI

12/5/24 (Item 24 from file: 347)  
DIALOG(R)File 347:JAPIO  
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03795375

PROPER STORAGE SYSTEM FOR **DATA** BASE

PUB. NO.: 04-160475 [JP 4160475 A]  
PUBLISHED: June 03, 1992 (19920603)  
INVENTOR(s): OOMAE NORIHIRO  
APPLICANT(s): NEC SOFTWARE KANSAI LTD [490843] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 02-284918 [JP 90284918]  
FILED: October 23, 1990 (19901023)  
INTL CLASS: [5] **G06F-015/40**  
JAPIO CLASS: 45.4 ( **INFORMATION** PROCESSING -- Computer Applications  
JOURNAL: Section: P, Section No. 1425, Vol. 16, No. 454, Pg. 85, September 21, 1992 (19920921)

ABSTRACT

PURPOSE: To suppress deterioration in the performance of the whole system by decentralizing a **data** base input/output load by a block No. **selecting** means which employs a key-by-key **hashing** system and an **access** frequency control means.

CONSTITUTION: A request to **access** a **data** base is generated by a transaction program and it is judged first whether the request means one of storage, retrieval, and rewriting. For the storage, a block No. is calculated by **hashing** calculation. Block **access** control **information** is retrieved to **select** the block No. whose **access** frequency is the smallest. Then the key value and **hashing** system by which the blocks with the smallest **access** frequency is calculated is registered in key-classified **hashing** control **information** and the **access** frequency is updated. For the retrieval, a **hashing** system is found with the key-classified **hashing** control **information** and a block No. is calculated. For the rewriting, a block No. is calculated similarly and an **access** frequency is updated.